

Trend Monitoring Update

NCDE SUBCOMMITTEE MEETING FALL 2024

TOPICS

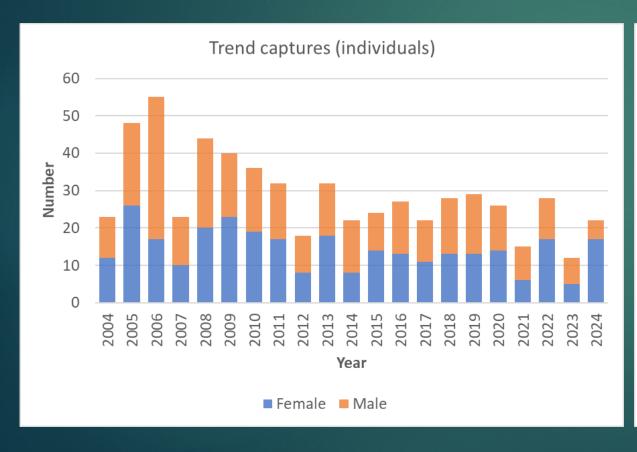
- 2024 trend & mortality monitoring
- 20-year anniversary retrospective
- Outliers and May Be Present
- GYE genetic augmentation effort

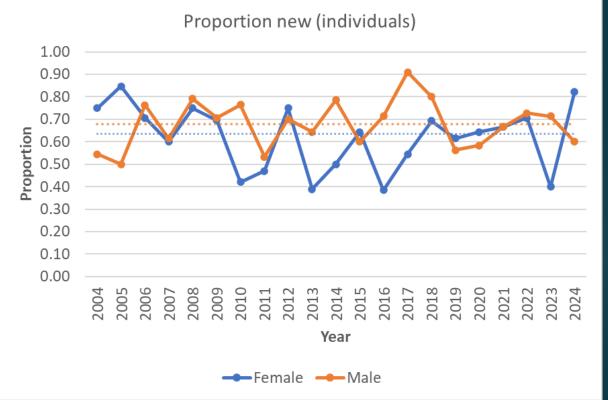
Trend monitoring CAPTURES

2024

Female: 17 captured, 14 (82%) new individuals

Male: 6 captured, 3 (60%) new individuals

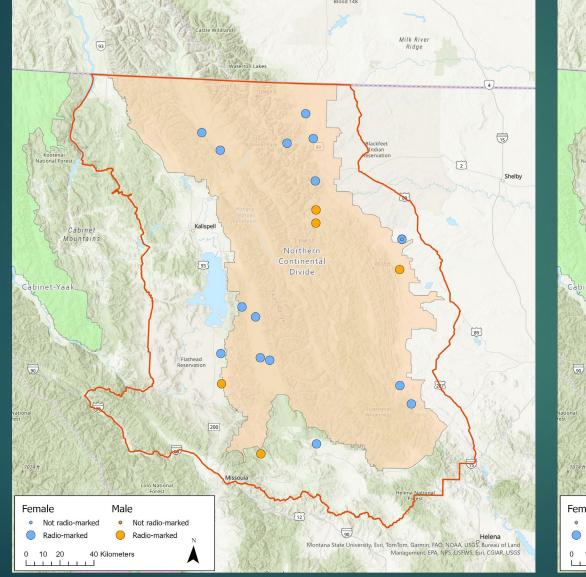


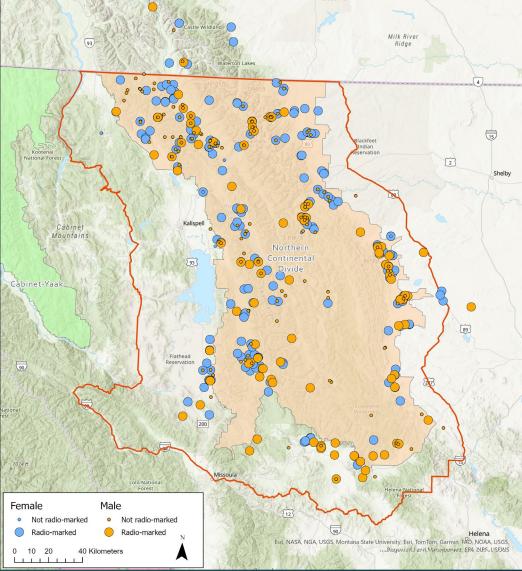


Trend monitoring

CAPTURES







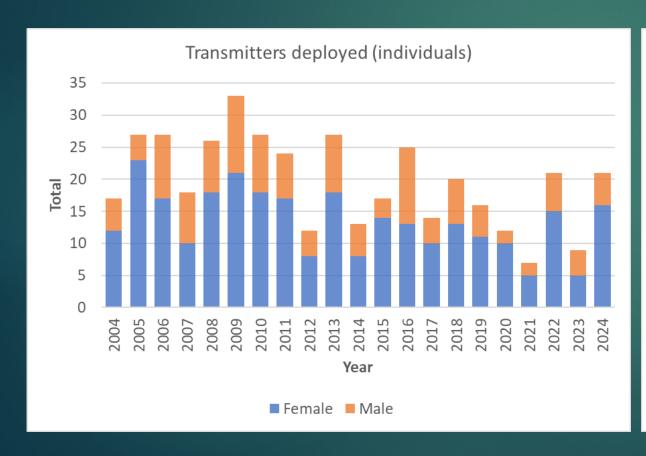
*Preliminary data, do not cite

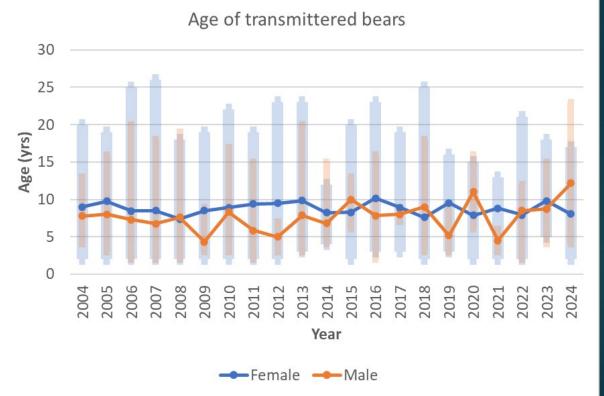
Trend monitoring RADIO-TRANSMITTERS DEPLOYED

2024

Female: 16 new radio-collars deployed

Male: 5 new radio-collars deployed



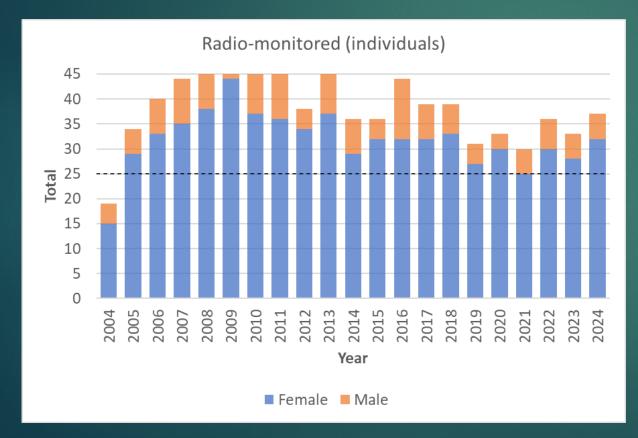


Trend monitoring TOTAL BEARS MONITORED

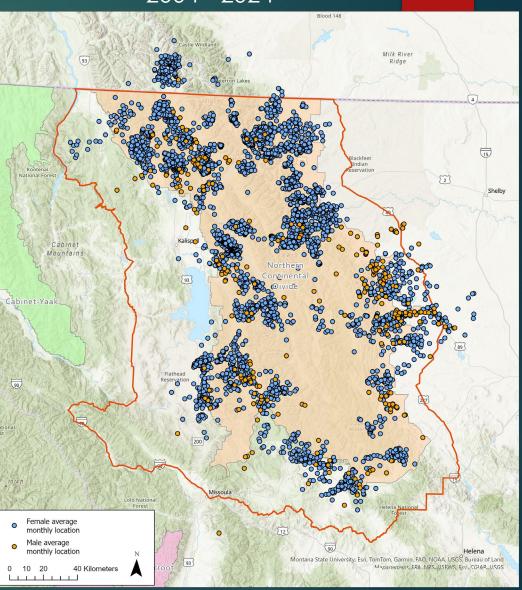
2024

Female: 32 radio-monitored

Male: 5 radio-monitored



Mean Monthly Locations 2004 - 2024

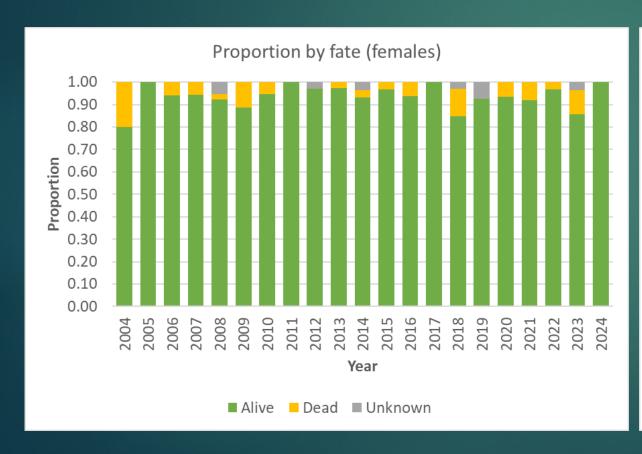


Trend monitoring FATES OF MONITORED BEARS

2024

Female: 32 radio-monitored, all alive

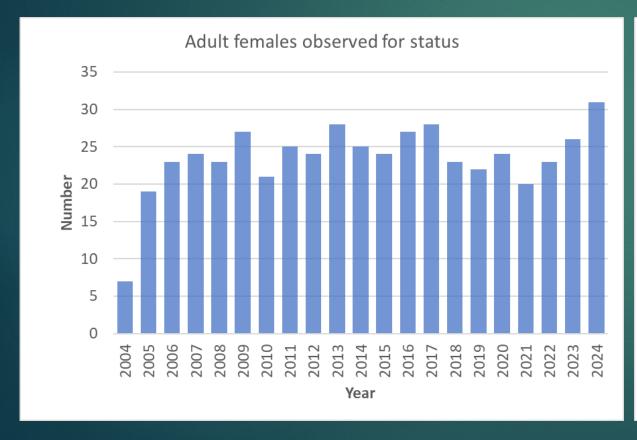
Male: 5 radio-monitored, all alive

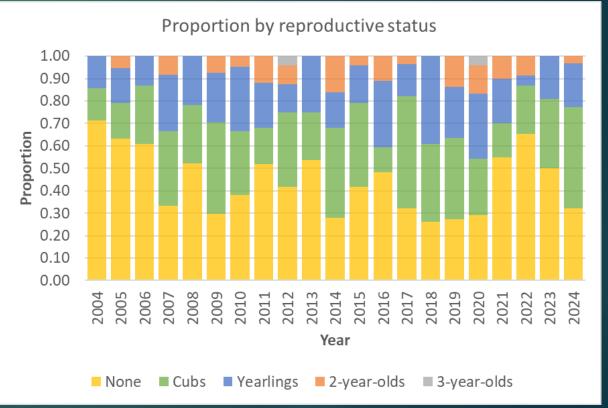




Trend monitoring REPRODUCTIVE STATUS OF MONITORED ADULT FEMALES

2024
31 females observed (April 18 to October 30)
32% with none, 45% with cubs, 19% with yearlings, 3% with 2-year-olds

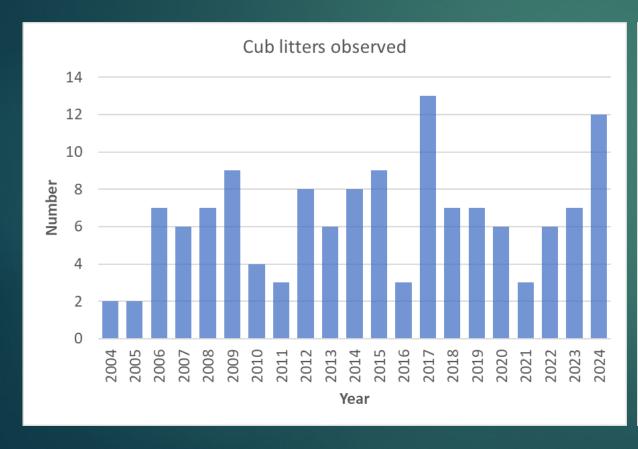


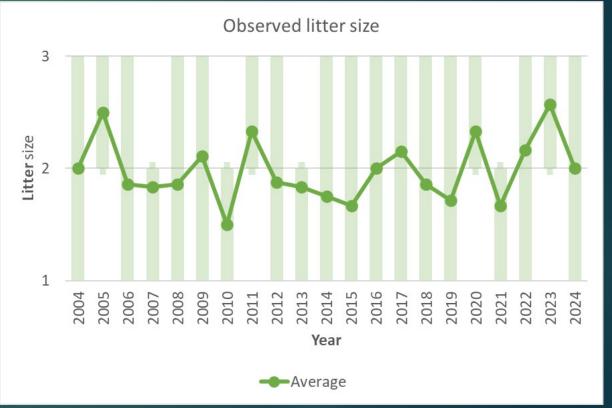


Trend monitoring CUB LITTER SIZE FOR MONITORED ADULT FEMALES

2024

12 cub litters observed (June 2 to September 12): 1 single, 10 twins, 3 triplets, mean = 2.0

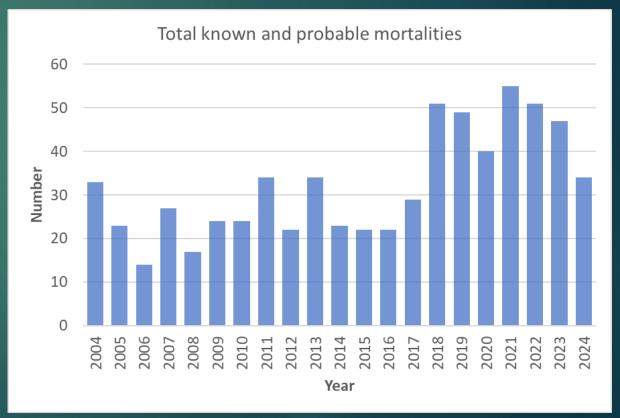




Mortality monitoring KNOWN AND PROBABLE MORTALITIES

2024 34 total mortalities

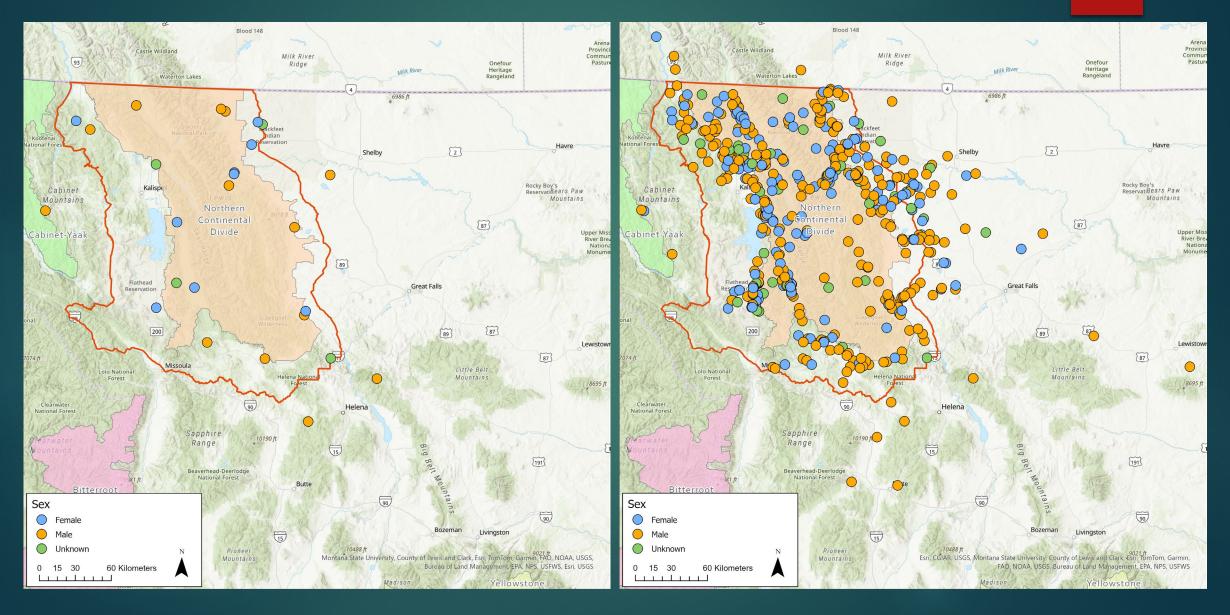
	Ageclass	F	M	U	Total
Inside DMA	Dependent	2	0	3	5
	Independent	10	10	1	21
	Total	12	10	4	26
Outside DMA	Dependent	0	0	1	1
	Independent	2	4	1	7
	Total	2	4	2	8



*Preliminary data, do not cite

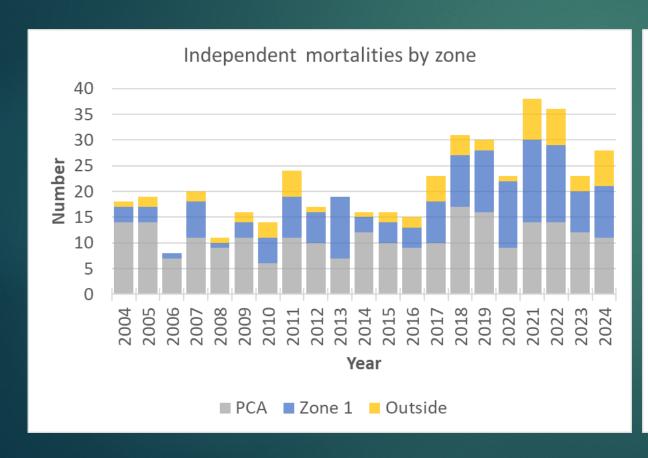
Mortality monitoring

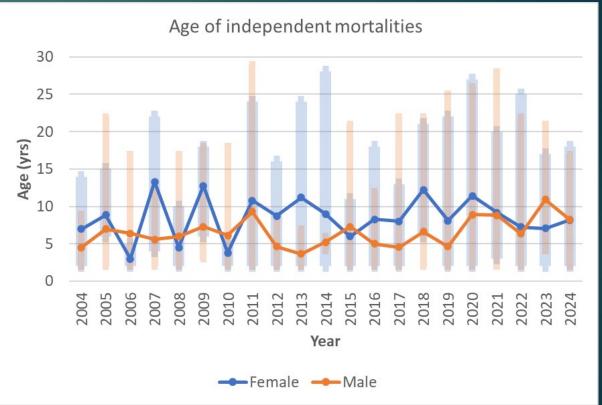
KNOWN AND PROBABLE MORTALITIES



Mortality monitoring KNOWN AND PROBABLE MORTALITIES (INDEPENDENT)

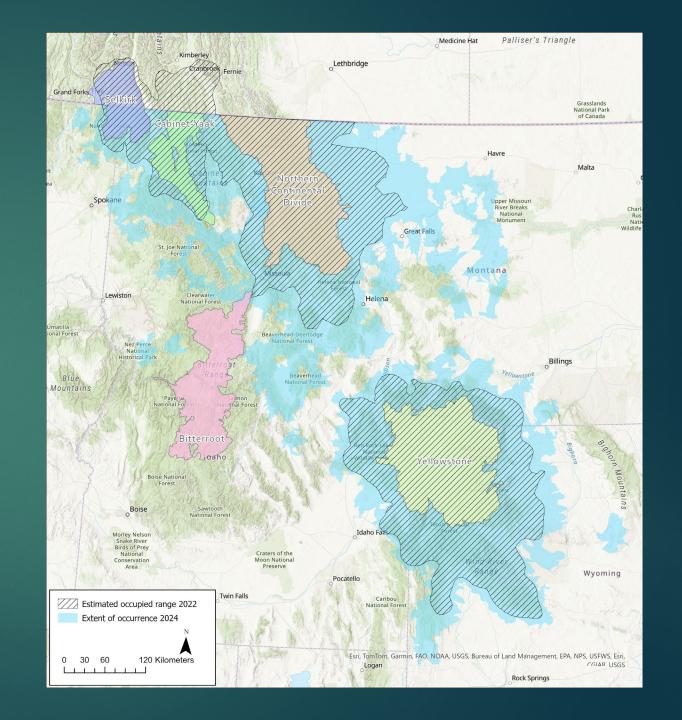
2024
34 total mortalities





Outliers & May Be Present MBP VERSION 2024-10-17

- Adel Mountains
- Anaconda Mountains
- Beaverhead Mountains
- Bear Paw Mountains
- Big Belt Mountains
- Bull Mountains
- Boulder Mountains
- Highwood Mountains
- Judith River
- Little Belt Mountains
- Milk River
- North Moccasin Mountains
- Snowy Mountains



GYE Genetic Augmentation DETAILS AND STATUS

Female: Estimated 4 years old

Captured in Middle Fork 7/29/2024

Released NW of Dubois, WY

Distance moved ~350 mi

Male: Estimated 5 years old

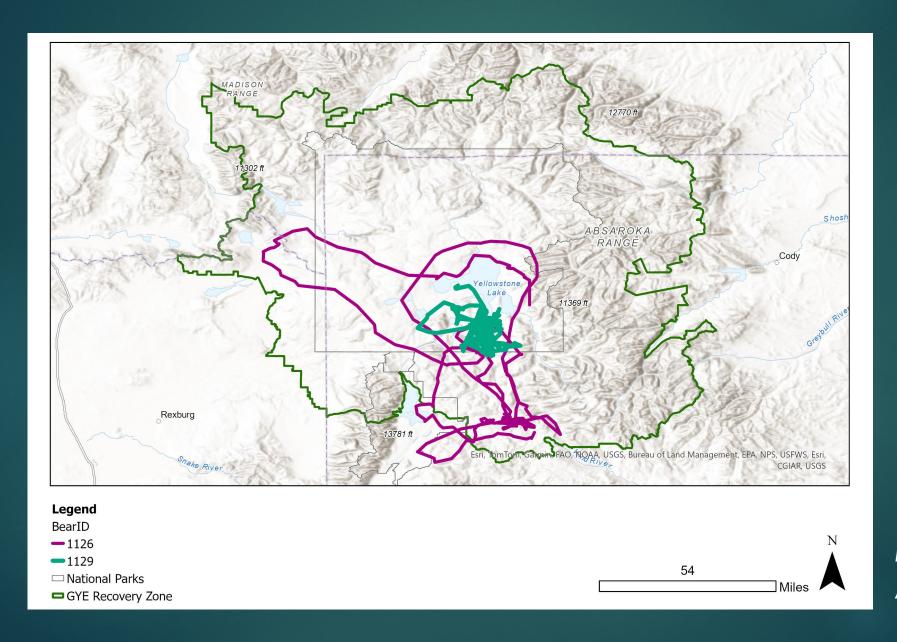
Captured in Middle Fork 7/30/2024

Released near Yellowstone Lake

Distance moved ~310 miles



GYE Genetic Augmentation



Movements
As of 11/7/2024

MONITORING TEAM

Payton Adams (CSKT) Cecily Costello (FWP) Jamie Jonkel (FWP) David Kemp (FWP) Brandon Kittson (BFW) Bruce Montgomery (FWP) Lori Roberts (FWP) Wesley Sarmento (FWP) Justine Vallieres (FWP Milan Vinks (FWP) John Waller (GNP) Erik Wenum (FWP) Chad White (FWP) Kyle Yorke (FWP)

SPECIAL THANKS

Courtney Lockerby, Mackenzie Taylor, Eli Hampson, Eric Graham, Brad Balis, Daniel McHugh, Jack Austin, Erin Fenger, Sarah Zielke, Kari Kingery, Paden Alexander, Steven Cross, Susan Clothier, Justin Gude, Ken McDonald, Ben Jimenez, Rory Trimbo, Morgan Vance, Mark Haroldson, Jennifer Fortin-Noreus, Hilary Cooley, Kraig Glazer, Rob Cherot, Ken Justus, Joe Rahn, Nathan Reiner, Rob Davies, Mark Ruby, Scott Snelson, Michael Muñoz, Chris Martin, Jim Dahlstrom, Kristine Simpson, Neil Cadwell, Two Bear Air, Jim Pierce, and Red Eagle Aviation.